

Palm Scanner Using A Programmable Nutating Mirror For Increased Resolution

Abstract

5 A system and method for increasing image resolution in a palm print
scanner. The method of the invention requires the synchronization of a nutating
mirror with a camera frame sync. A first image is scanned at a first nutation
position. The mirror is nutated by a fraction of a pixel amount in one direction.
Another image is scanned at a second nutation position. The process of nutating
10 the mirror to a different nutation position and scanning an image is repeated until
all sub-pixels needed to increase an image resolution are obtained. All of the sub-
pixels obtained are then interlaced to obtain a higher resolution image.

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